Index of Claims



Application/Control No.

10/532,423

Examiner

Ganapathirama Raghu

Applicant(s)/Patent under Reexamination

ABE ET AL.

Art Unit

1652

| √  | Rejected |
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| II | Allowed  |

- (Through numeral)
Cancelled
+ Restricted

Non-Elected
I Interference

A Appeal
O Objected

| Cla            | aim Date  |  |  |  |         |        | Cla      | im                 | Date     |      |          |                   |          |                     |          |          |          | CI        | aim    | Date    |      |  |            |          |          |          |          |          |          |          |          |          |
|----------------|---|--|--|--|---------|--------|----------|--------------------|----------|------|----------|-------------------|----------|---------------------|----------|----------|----------|-----------|--------|---------|------|--|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                |   |  |  |  |         |        |          |                    |          |      |          |                   |          |                     |          | T        |          |           |        |         |      |  |            |          |          |          |          |          |          |          |          | П        |
| Final          | Original  | 4/9/07   |  |  |         |        | 1        |                    |          |      | Final    | Original          | 4/9/07   |                     |          | - 1      |          |           |        |         |      | Final  | Original   |          |          |          | ı        |          |          |          |          |          |
| i              | Ĕ   | \$   |  | 1  |         |        |          |                    |          |      | 這        | Ę                 | 4/8      |                     | ŀ        | - 1      |          | Ì         |        |         |      | ίĒ   | Ĕ          |          |          | 1        | .        |          |          |          | .        |          |
| L              | -   | L  | _  | $\sqcup$   |         |        | 1        | $\sqcup$           |          |      |          |                   |          | Ш                   |          |          | _        | _         | _      |         |      |  |            | Ш        | $\Box$   |          |          |          |          |          |          |          |
|                | 1,  | <u> </u>   | L  | $\sqcup$   | _ _     | _      |          | $\sqcup$           |          |      | $\Box$   | 5 <del>1</del> 52 |          | Ш                   | $\sqcup$ | _        | 4        | _         | 1      |         |      |  | 101        |          | $\Box$   | _        |          | _        |          |          |          | Ш        |
| L              | 2   | _  | _  | $\vdash$   | _ _     | _      | 4        | $\sqcup$           | _        |      |          |                   | Ļ        |                     | 4        | _        | _        | _         | _      | _       |      | <u>.                                    </u> | 102        |          |          | _        | _        |          |          |          |          | Ш        |
| <u> </u>       | 3   | _  | <u> </u>   | $\vdash$   |         | +      | 4        | $\sqcup$           | _        |      |          | 53                | ÷        | $\square$           | _        | _        | _        | 4         | _      |         |      |  | 103        |          |          | _        | 4        | _        |          |          | _        | Ш        |
| <u> </u>       | 4   | <u> </u>   | ⊢  | $\vdash$   |         | +-     | +-       | +                  |          |      | -        | 54                | 1        |                     | $\dashv$ |          | -        | +         | +      | +       |      |  | 104        |          |          | $\dashv$ |          | _        | _        |          | _        |          |
| <u> </u>       | 5   | <del> </del>                                     | ⊢  |  | -       | +      | +-       | $\vdash$           |          |      |          | 55                | Н        | $\vdash$            |          |          | _        | +         | +      | -       |      |  | 105        |          | $\dashv$ | $\dashv$ |          | _        | -        | $\dashv$ | _        |          |
| ├              | 6<br>7  |  | ⊢  | $\vdash$   |         | +-     | +-       | ╂                  | _        |      |          | 56<br>57          | H        | -                   | $\dashv$ | -        | $\dashv$ | +         | +      | +       |      |  | 106        |          |          | $\dashv$ | $\dashv$ |          | _        | $\dashv$ | _        |          |
| ├              | 8   | ⊢  | ┢  | $\vdash$   | +       | ╁      | ┿        | ╂╾╅                |          |      |          | 58                | ╁        | $\vdash$            | $\dashv$ | +        | $\dashv$ | -         | +      | +       |      |  | 107<br>108 | Н        | $\dashv$ | $\dashv$ |          | _        |          | $\dashv$ | $\dashv$ | $\vdash$ |
| <u> </u>       | 9   | H  | ┝  | $\vdash$   | +       | ╁      | ╁        | $\vdash$           | $\dashv$ |      |          | 59                | Н        | $\vdash$            | -        | -        | +        | +         | +      | +       |      |  | 109        |          | _        | $\dashv$ | $\dashv$ | $\dashv$ | H        | $\dashv$ |          | <u> </u> |
| <u> </u>       | 10  | ┝  | ┢  | $\vdash$   | +       | ╁      | +-       | +-+                | -        |      |          | 60                | ╫        | $\vdash$            | $\dashv$ | -        | +        | -         | +      | ╁       |      |  | 110        | $\vdash$ | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$ |          | $\dashv$ | $\vdash$ |
|                | 11  |  | $\vdash$   | $\vdash$   | +       | +      | +        | <del>  -  </del>   | -        |      |          | 61                | Н        | Н                   | $\dashv$ | $\dashv$ | +        | +         | ╁      | ╅       |      |  | 111        | $\vdash$ |          | $\dashv$ | $\dashv$ | $\dashv$ | Н        | $\vdash$ | $\dashv$ | $\vdash$ |
| -              | 12  | _  | $\vdash$   | ╁┼   | +       | +      | +        | 1-1                |          |      |          | 62                | H        | $\vdash$            | $\dashv$ | $\dashv$ | $\dashv$ | +         | +      | +       |      |  | 112        | Н        | $\dashv$ | $\dashv$ | $\dashv$ | -        | Н        | $\dashv$ | $\dashv$ | $\vdash$ |
| <b></b>        | 13  | $\vdash$   | $\vdash$   | ╁╌┼  | +       | +      | 1        | 1 1                | -        |      |          | 63                | H        | $\vdash$            | $\dashv$ | $\dashv$ | +        | +         | +      | +       |      |  | 113        | $\vdash$ | -        | -+       | $\dashv$ | $\dashv$ | $\vdash$ | -        | $\dashv$ | $\dashv$ |
| <del> </del>   | 14  | <del>                                     </del> | $t^-$  |  | +       | +      | †        | 1 1                | $\dashv$ |      |          | 64                | H        | $\vdash$            | ᆉ        | $\dashv$ | +        | +         | +      |         |      |  | 114        | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | Н        |          | -        | $\vdash$ |
|                | 15  | T  |  | $\vdash$   | $\top$  | +      | $\top$   | 1-1                |          |      | $\Box$   | 65                | Н        | H                   | $\dashv$ | $\neg$   | $\dashv$ | 十         | +      | +       |      |  | 115        | $\vdash$ | $\dashv$ | 7        | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$ |          | $\Box$   |
|                | 16  |  |  |  | 1       | 1      | 1        | 11                 |          |      |          | 66                | Ш        | Н                   | $\dashv$ | $\dashv$ | $\dashv$ | $\top$    | $\top$ | $\top$  |      |  | 116        |          |          | $\dashv$ |          |          | Н        | $\dashv$ | $\dashv$ | М        |
|                | 17  | $I^-$  | $\Box$   |  | $\top$  | $\top$ | $\top$   | 1                  |          |      |          | 67                | Ш        | П                   | $\dashv$ | 寸        | $\dashv$ | $\top$    | 十      | +       |      | -  | 117        |          |          | 7        | $\neg$   | $\dashv$ | Н        |          | $\dashv$ | П        |
|                | 18  |  |  |  |         | 十      | <b>T</b> | $\Box$             |          |      |          | 68                | П        | П                   |          | $\neg$   |          | $\top$    | $\top$ | 1       |      |  | 118        |          | $\dashv$ | $\dashv$ |          | _        |          |          | $\neg$   | П        |
|                | 19  |  | Г  |  |         | 1      | 1        | $\Box$             |          |      |          | 69                | П        | П                   |          | 寸        | 十        | $\top$    | $\top$ |         |      |  | 119        |          | $\dashv$ | 一        | T        | ┪        | П        |          |          | П        |
|                | 20  | Г  |  |  |         | 1      | 1        |                    |          | :::: |          | 70                | +        | П                   |          | 1        | 十        | $\dagger$ | $\top$ | $\top$  |      |  | 120        |          |          |          |          | T        |          |          | $\dashv$ |          |
|                | 21  | Г  | П  | П  |         | 1      | Ť        | П                  |          |      | -        | 77                | Ħ        |                     | =        | =        | 十        |           | $\top$ |         |      |  | 121        |          | $\dashv$ | 7        |          |          |          |          | $\neg$   | П        |
|                | 22  |  |  |  |         | 1      |          | $\Box$             |          |      |          | 72                |          | П                   |          | $\neg$   | $\neg$   | $\top$    |        |         |      |  | 122        |          | $\neg$   |          |          |          |          | $\neg$   | $\neg$   | П        |
|                | 23  |  |  |  |         | Т      |          |                    |          |      |          | 73                |          | П                   |          | T        | $\neg$   | $\neg$    | T      | T       |      |  | 123        |          |          |          |          |          |          |          | $\neg$   |          |
|                | 24  |  |  | П  |         |        |          |                    |          |      |          | 74                |          | П                   |          |          | $\top$   |           | T      |         |      |  | 124        |          | $\neg$   |          |          |          |          | $\neg$   |          |          |
|                | 25  |  |  |  |         |        |          |                    |          |      |          | 75                |          | П                   |          |          |          |           | Т      |         |      |  | 125        |          |          | $\neg$   |          |          |          |          | $\neg$   |          |
|                | 26  |  |  |  |         |        |          |                    |          |      |          | 76                |          |                     |          | $\neg$   | $\top$   |           |        |         |      |  | 126        |          |          |          |          |          |          |          |          |          |
|                | 27  |  | L  |  |         | ┸      |          |                    |          |      |          | 77                |          | Ш                   |          |          |          |           |        |         |      |  | 127        |          |          |          |          |          |          |          |          |          |
|                | 28  | <u>_</u>   | L  |  |         | 丄      |          |                    |          |      |          | 78                |          |                     |          |          |          |           |        |         |      |  | 128        |          |          |          |          |          |          |          |          |          |
|                | 29  | _  | _  | $\sqcup$   | $\perp$ | 丄      |          | $\sqcup$           |          |      |          | 79                |          | Ш                   | _        |          | $\perp$  | $\perp$   | ┸      | $\perp$ |      |  | 129        |          |          |          |          |          |          |          |          |          |
|                | 30  | _  | _  | $\sqcup$   |         | $\bot$ | _        | Ш                  |          |      |          | 80                |          |                     | _        | $\perp$  | $\perp$  | _         | ┸      | $\perp$ |      |  | 130        |          | $\perp$  | $\perp$  |          | $\Box$   |          |          |          |          |
|                | 3   |  | _  | $\sqcup$   |         | ┸      | _        | $\perp \downarrow$ | _        |      |          | 81                |          | Ц                   |          | _        | _        | _         | _      |         |      |  | 131        |          |          | $\perp$  |          |          |          | $\Box$   |          |          |
| ļ              | 32  |  |  | $\sqcup$   |         | ┸      | _        | $\sqcup$           | _        |      |          | 82                |          | Ц                   | $\dashv$ | _        | $\perp$  | 4         |        |         |      |  | 132        |          |          | _        | _        |          |          | _        |          |          |
|                | 33  | _  | -  | $\vdash$   | _       | $\bot$ | 1        | +                  | _        |      |          | 83                | Ш        | Ш                   | _        | _        | $\perp$  |           | _      |         |      |  | 133        |          |          | _        | _        | _        |          | _        | _        |          |
| <u> </u>       | 34  | <u> </u>   | <u> </u>   | $\vdash \vdash$                                  | 4       | +      | 4-       | +                  | _        |      |          | 84                | Ш        | $\sqcup$            | _        | _        | 4        | _         | 4      |         | :::: |  | 134        |          | _        | _        | _        | _        | $\Box$   | _        |          |          |
| <u> </u>       | 35  | -  | -  | $\vdash$   | +       | +      | +        | 1-4                | _        |      |          | 85                | Ш        | $\vdash \downarrow$ |          | 4        | 4        | +         | _      | +       |      |  | 135        | -        | $\dashv$ | $\dashv$ | _        |          |          | _        | _        | Щ        |
| <u> </u>       | 36<br>37<br>38<br>39<br>40                      | <u> </u>   | -  | $\vdash$   | +       | +      | +        | ╁╌┼                | $\dashv$ |      |          | 86                | Ш        | Н                   | $\dashv$ | -        | +        | +         | +      | +       |      |  | 136        | _        | $\dashv$ | 4        | 4        |          | -        | _        | _        | Щ        |
| -              | ¥   | -  | <u> </u>   | <del>                                     </del> | +       | +      | +        | 1-1                |          |      | <u> </u> | 87                | Ш        | $\vdash \downarrow$ |          | $\dashv$ | +        | +         | +      | _       | :::: |  | 137        |          | _        | _        | _        | _        |          | -        | _        | Щ        |
| <del> </del>   | 32  | -  | <del> </del>                                     | ├─┼  | +       | +      | +        | ╂┼┼                | $\dashv$ |      |          | 88                | Щ        | $\vdash \vdash$     |          | $\dashv$ | +        | +         | +      | +       |      |  | 138        |          | $\dashv$ | -        | -        |          | $\Box$   | -        |          | $\dashv$ |
| <u> </u>       | <del>                                    </del> | $\vdash$   | -  | ├─├  | +       | +      | +        | ╁┼                 |          |      |          | 89                | $\vdash$ | Н                   | -        | $\dashv$ | +        | +         | +      | +-      |      |  | 139        |          | $\dashv$ | $\dashv$ | $\dashv$ |          |          |          |          | Щ        |
| <u> </u>       |   | $\vdash$   | -  | ┝╌┼╴   | +       | +      | +        | ┨╂                 | $\dashv$ |      |          | 90                | $\vdash$ | Н                   | -+       | -+       | +        | +         | +      | +       | :::  |  | 140        |          | $\dashv$ | $\dashv$ | $\dashv$ |          | $\Box$   | -        |          |          |
| <u> </u>       | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4           | $\vdash$   | -  | ┝  | +       | +      | +        | ╂═┼                | -        |      |          | 91<br>92          | $\vdash$ | $\vdash \vdash$     | -+       | -        | +        | +         | +-     | +-      |      |  | 141        |          | _        | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ |          | $\dashv$ |
| ļ              | <del>  1</del>                                  | $\vdash$   | ⊢  | $\vdash \vdash$                                  | +       | +      | +        | $\vdash$           |          |      |          |                   | $\vdash$ | $\vdash$            | -        |          |          | +         | +      | +       |      |  | 142        |          |          |          | -        |          |          |          | $\dashv$ | $\dashv$ |
| <u> </u>       | 4 <del>D</del>                                  | -  | $\vdash$   | $\vdash \vdash$                                  | +       | +      | +        | ╁┼                 |          |      | $\vdash$ | 93<br>94          | $\vdash$ | $\vdash$            | $\dashv$ | $\dashv$ | -        | +         | +      | +-      |      |  | 143        | $\dashv$ | $\dashv$ | $\dashv$ | -        |          |          |          |          | $\dashv$ |
|                | #   | $\vdash$   | $\vdash$   | ⊢⊹   | +       | +      | +        | ╂┯┼                |          |      |          | 95                | $\vdash$ | $\vdash$            | $\dashv$ | $\dashv$ | +        | +         | +      | +-      |      |  | 144        | _        | -        |          |          | $\dashv$ |          | $\dashv$ |          | $\dashv$ |
|                |   |  | -  | ┝─┼╴   | +       | +      | +        | ╂╼╂                | $\dashv$ |      |          | 96                |          | $\vdash$            | $\dashv$ | +        | +        | +         | +      | +       |      |  | 145<br>146 |          | $\dashv$ | $\dashv$ | -        |          |          | $\dashv$ |          | $\dashv$ |
|                | 70  | -  | <del>                                     </del> | $\vdash \vdash$                                  | +       | ╁      | +        | ╅┥                 | -        |      | $\vdash$ | 97                | Н        | $\vdash$            | $\dashv$ | -+       | +        | +         | +-     | +       |      |  | 146        |          | $\dashv$ | -+       | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ |          |
| _              | 1/2   | $\vdash$   | $\vdash$   | $\vdash \vdash$                                  | +       | ╁      | ╁╌       | + +                | $\dashv$ |      |          | 98                | $\dashv$ | $\vdash \dashv$     | $\dashv$ | +        |          | +         | ╁      | +       |      |  | 148        | $\dashv$ | +        | $\dashv$ |          | $\dashv$ |          |          | $\dashv$ | $\dashv$ |
| _              | 48<br>49<br>50                                  | $\vdash$   | $\vdash$   | $\vdash$   | +       | +      | +        | 1-1                | $\dashv$ |      | $\vdash$ | 99                | $\vdash$ | $\vdash$            | $\dashv$ | $\dashv$ | +        | +         | ╁      | +       |      |  | 149        | $\dashv$ | -        | +        | -        | -        |          | $\dashv$ | $\dashv$ | $\dashv$ |
| <del>  -</del> | 承   | <del> </del>                                     | $\vdash$   | $\vdash$   | +       | +      | +        | ╁                  |          |      |          | 100               | $\vdash$ | $\vdash$            | -+       | -        | +        | +         | +-     | +       |      |  | 150        | $\dashv$ | $\dashv$ | $\dashv$ | +        | -1       |          | $\dashv$ |          | $\dashv$ |
| L              |   | Ц_   |  |  |         |        |          | Щ.                 |          |      |          | 100               |          | LL                  |          |          |          |           |        |         |      |  | 130        |          |          |          |          | 1        |          |          |          |          |